

MARINE CORPS WARFIGHTING LABORATORY

The purpose of **bar armor** is to provide a low cost, passive RPG defeat mechanism for use on Marine Corps vehicles.

Background:

RPGs are an extremely dangerous weapon against light armored vehicles such as the High Mobility Multipurpose Wheeled Vehicle (HMMWV) with the installed Marine Armor Kit (MAK). Operational experience has shown that a simple bar mechanism is effective at duding an RPG or preventing it from detonating and forming an explosive jet in at least 65% of firings; however, it adds extra weight, makes the vehicle wider and more difficult to enter or exit. MCWL has teamed with the Defense Advanced Research Projects Agency (DARPA) to find a low cost light weight alternative.

Description:

L-ROD is an aluminum bar matrix mounted to specially designed brackets that bolt directly to the doors of a MAK equipped HMMWV. The bars can defeat an RPG by crushing its metal nose and shorting the firing circuit preventing it from forming an explosive jet. The bars are easily replaced if damaged and the entire 4 door package weighs only 130 pounds. The bars, when extended, allow the vehicles windows to open to about two thirds of their full range.

Benefits:

- Increased RPG protection with little weight penalty
- Collapses to reduce vehicle width for travel or storage
- Easily replaceable
- Bar armor moves with the door as one unit for easier entry or exit

COUNTER ROCKET PROPELLED GRENADE (RPG) BAR ARMOR

fact sheet



Deliverable Product:

L-ROD HMMWV kits in sufficient quantity (50) to operating forces for extended operational assessment.

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